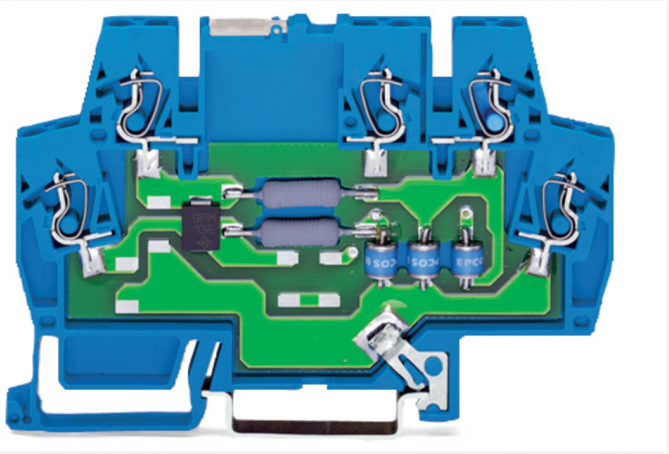
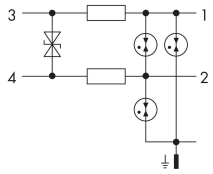
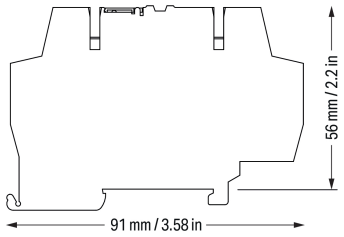
# Data Sheet | Item Number: 792-803

Surge suppression module for signal technology; Nominal voltage: 24 VDC; for 2 signal paths with common surge arrester; for symmetric interfaces; Two-stage; protects intrinsically safe circuits; Width: 6 mm; 2,50 mm²

https://www.wago.com/792-803






**Short description:**

Provides surge protection for IT systems and devices in the voltage range up to 60 V (except custom solutions, e.g., telephone systems with ringing voltage). Overvoltage protection is also possible for DIN-35 rail-mount terminal blocks. Multi-stage surge arresters in rail-mount terminal blocks (792-80x Series) of just 6 mm width ensure cost-effective protection for control and bus technology (e.g., LON® network, PROFIBUS network, binary signals).

**Features:**

- Protect your system against overvoltage
- Slim, space-saving design
- Control operational costs by preventing expensive, unplanned downtime
- High operational reliability and system uptime

| Notes | |
|---|---|
| Safety Information | - Installation must be performed by qualified personnel only.<br>- The DIN-rail must be grounded.<br>- The input current must be protected by a suitable fuse.<br>- Protection against contact with stored charges must be ensured.<br>- Do not insert or remove pluggable modules when energized.<br>- The IP20 protection rating must be maintained in the assembled state or when using an end/intermediate plate compatible with the rail-mount terminal block. |
| Note | The coordination characteristics of the surge arrester provide information about its discharge capacity and protection capability. |

## Electrical data

| | |
|---|---|
| Nominal operating voltage | 24 VDC |
| Maximum continuous voltage | 23 VAC / 33 VDC |
| Input voltage (max.) per EN 50020 $U_i$ | 30 V |
| Nominal current | 0.5 A |
| Input current (max.) per EN 50020 $I_i$ | 0.5 A |
| Nominal discharge current (8/20 µs) (line) | 5 kA |
| Nominal discharge current (8/20 µs) (total) | 10 kA |
| Protection level (line/line) (cat. C2 at $I_N$) | ≤ 50 V |
| Protection level (line/protected ground) (cat. C2 at $I_N$) | ≤ 1.5 kV |
| Protection level (line/line) (cat. C3 at $I_N$) | ≤ 45 V |
| Protection level (line/protected ground) (cat. C3 at $I_N$) | ≤ 1.4 kV |
| Response time (line/line) | ≤ 1 ns |
| Response time (line/protected ground) | ≤ 100 ns |
| Limit frequency (line/line) | 6 MHz |
| Impedance | 1.8 Ω |
| Capacitance (line/line) | ≤ 10 nF |
| Capacitance (line/protected ground) | ≤ 6 pF |

## Safety and protection

| | |
|---|---|
| Protection type | IP00; IP20 with end and intermediate plate |

## Connection Data

| | |
|---|---|
| Connections (number) | 5 |
| Connection technology | CAGE CLAMP® |
| Solid conductor | 0.08 … 2.5 mm² / 28 … 14 AWG |
| Fine-stranded conductor | 0.08 … 2.5 mm² / 28 … 14 AWG |
| Strip length | 5 … 6 mm / 0.2 … 0.24 inches |

## Physical data

| | |
|---|---|
| Width | 6 mm / 0.236 inches |
| Height | 91 mm / 3.58 inches |
| Depth from upper-edge of DIN-rail | 56 mm / 2.2 inches |

## Mechanical data

| | |
|---|---|
| Mounting type | DIN-35 rail |

## Material data

| | |
|---|---|
| Weight | 46 g |

## Environmental requirements

| | |
|---|---|
| Ambient temperature (operation) | -40 … +80 °C |
| Ambient temperature (storage) | -40 … +80 °C |


Continued on next page

## Standards and Specifications

| | |
|---|---|
| Standards/specifications | IEC 61643-21 |

## Commercial data

| | |
|---|---|
| Product Group | 21 (Special Products Electronic) |
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4017332780766 |
| Customs tariff number | 85363010000 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121610 |
| eCl@ss 10.0 | 27-13-08-05 |
| eCl@ss 9.0 | 27-13-08-05 |
| ETIM 9.0 | EC000943 |
| ETIM 10.0 | EC000943 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 7(a)<br>7(c)-I |

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| EAC<br>GZO Almaty Standart | TP TC 004/2011 | EAC CoC 03084 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Ex-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |

### Approvals for hazardous areas

| Approval | Standard | Certificate Name |
|---|---|---|
| ATEX<br>DEKRA Certification B.V. | EN 60079-0 | DEKRA 13ATEX0113X |


Continued on next page

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 792-803

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 792-803 | 19.02.2019 | xml 4.50 KB |
| 792-803 | 11.02.2015 | doc 28.00 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models 792-803

**CAE data**

EPLAN Data Portal 792-803

WSCAD Universe 792-803

ZUKEN Portal 792-803

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 End plate

##### 1.1.1.1 End plate



Item No.: 859-525
End and intermediate plate; 1 mm thick; gray

##### 1.1.1.2 Intermediate plate



Item No.: 859-525
End and intermediate plate; 1 mm thick; gray

 Continued on next page

## 1.1.2 Jumper

### 1.1.2.1 Jumper



Item No.: 859-410/000-006
Jumper; for jumper slot; 10-way; insulated; blue



Item No.: 859-410
Jumper; for jumper slot; 10-way; insulated; light gray



Item No.: 859-410/000-005
Jumper; for jumper slot; 10-way; insulated; red



Item No.: 859-410/000-029
Jumper; for jumper slot; 10-way; insulated; yellow



Item No.: 859-402/000-006
Jumper; for jumper slot; 2-way; insulated; blue



Item No.: 859-402
Jumper; for jumper slot; 2-way; insulated; light gray



Item No.: 859-402/000-005
Jumper; for jumper slot; 2-way; insulated; red



Item No.: 859-402/000-029
Jumper; for jumper slot; 2-way; insulated; yellow



Item No.: 859-403/000-006
Jumper; for jumper slot; 3-way; insulated; blue



Item No.: 859-403
Jumper; for jumper slot; 3-way; insulated; light gray



Item No.: 859-403/000-005
Jumper; for jumper slot; 3-way; insulated; red



Item No.: 859-403/000-029
Jumper; for jumper slot; 3-way; insulated; yellow



Item No.: 859-404/000-006
Jumper; for jumper slot; 4-way; insulated; blue



Item No.: 859-404
Jumper; for jumper slot; 4-way; insulated; light gray



Item No.: 859-404/000-005
Jumper; for jumper slot; 4-way; insulated; red



Item No.: 859-404/000-029
Jumper; for jumper slot; 4-way; insulated; yellow



Item No.: 859-405/000-006
Jumper; for jumper slot; 5-way; insulated; blue



Item No.: 859-405
Jumper; for jumper slot; 5-way; insulated; light gray



Item No.: 859-405/000-005
Jumper; for jumper slot; 5-way; insulated; red



Item No.: 859-405/000-029
Jumper; for jumper slot; 5-way; insulated; yellow



Item No.: 859-406/000-006
Jumper; for jumper slot; 6-way; insulated; blue



Item No.: 859-406
Jumper; for jumper slot; 6-way; insulated; light gray



Item No.: 859-406/000-005
Jumper; for jumper slot; 6-way; insulated; red



Item No.: 859-406/000-029
Jumper; for jumper slot; 6-way; insulated; yellow



Item No.: 859-407/000-006
Jumper; for jumper slot; 7-way; insulated; blue



Item No.: 859-407
Jumper; for jumper slot; 7-way; insulated; light gray



Item No.: 859-407/000-005
Jumper; for jumper slot; 7-way; insulated; red



Item No.: 859-407/000-029
Jumper; for jumper slot; 7-way; insulated; yellow



Item No.: 859-408/000-006
Jumper; for jumper slot; 8-way; insulated; blue



Item No.: 859-408
Jumper; for jumper slot; 8-way; insulated; light gray



Item No.: 859-408/000-005
Jumper; for jumper slot; 8-way; insulated; red



Item No.: 859-408/000-029
Jumper; for jumper slot; 8-way; insulated; yellow



Item No.: 859-409/000-006
Jumper; for jumper slot; 9-way; insulated; blue



Item No.: 859-409
Jumper; for jumper slot; 9-way; insulated; light gray



Item No.: 859-409/000-005
Jumper; for jumper slot; 9-way; insulated; red



Item No.: 859-409/000-029
Jumper; for jumper slot; 9-way; insulated; yellow

## 1.1.3 Marking

### 1.1.3.1 Marker



Item No.: 2009-145
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 248-566
Mini-WSB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-504
Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-452
Mini-WSB marking card; as card; MARKED; K (100x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-450
Mini-WSB marking card; as card; MARKED; K1 - K10 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-451
Mini-WSB marking card; as card; MARKED; K11 - K20 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-455
Mini-WSB marking card; as card; MARKED; U 100 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-453
Mini-WSB marking card; as card; MARKED; U1, ... U10 (10x); not stretchable; Horizontal marking; snap-on type; white


Continued on next page

### 1.1.3.1 Marker



Item No.: 248-454
Mini-WSB marking card; as card; MARKED; U11 - U20 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-501
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white

### 1.1.3.2 Marking device



Item No.: 210-110
Fiber-tip pen; Line width 0.1; Line color black

## 1.1.4 Tool

### 1.1.4.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured